No.



200100057

THIE UNITED STAYIES OF ANTERIOA

TO ME TO WHOM THESE PRESENTS SHALL COME: California Cooperative Rice Research Tonnantion, Inc.

There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR ANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN ED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED STALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT.)

RICE

'M-104'

In Testimon Meeters, I have hereunto set my hand and caused the seal of the Mant Partiety Frotestion Office to be affixed at the City of Washington, D.C. this tenth day of November, in the year two thousand and four.

Attast:

Commissioner
Plant Variety Protection Office

ery of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following state mants are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

Application is required in order to determine if a plant variety protection certificate is to be issued
(7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

(instructions and information	CORRECTOR DOLORY 219(SIME)	n un revers	e)			
1 NAME OF OWNER		2. TEMPORARY DESIGNATION EXPERIMENTAL NAME	OR 3. VARIETY HAME			
California Cooper	ative Rice Resea	. 95-Y-214	M-104			
4 ADDRESS (Street and No., or R.F.D. No.,	City, State, and ZIP Code, and Co.	5. TELEPHONE (Include area co	FOR OFFICIAL TISE ONLY			
Rice Experiment S	tation		530-868-5481	PVPO NUMBER		
P. O. Box 306 955 Butte City Hw	V	-				
Biggs, CA 95917-0	-	٠		6. FAX (include area code)		
				530-868-1730	FILING DATE	
7. IF THE OWNER NAMED IS NOT A "PERS	ONT, GIVE FORM OF	S. IF INC	ORPORATED, GIVE E OF INCORPORATION	9. DATE OF INCORPORATION		
Non-profit organi		- }	ZA	1912	12/28/2000	
10 NAME AND ADDRESS OF OWNER REF					FILING AND EXAMINATION	
Dr. Kent S. McKen	zie				FEES:	
Director	- 				E : 2705	
Rice Experiment S	tation				R DATE 12/28/2000	
P. O. Box 306 Biggs, CA 95917-0	306	. 4		*	C CERTIFICATION FEE:	
biggs, CA 93917-0.			÷	Ps .	V (121 00)	
				•	,	
					DATE 10-5-04	
11. TELEPHONE (Include area code)	12. FAX (Include area code)		13. E_MAK	1	4. CROP KIND (Common Name)	
530-868-5481	530-868-1730		ksmckenzi	e@crrf.org	Rice	
15 GEHUS AND SPECIES NAME OF CROF			16, FAMILY NAME (BO	tanica/) 1	7. IS THE VARIETY A FIRST GENERATION HYBRID?	
Oryza sativa L.	-		Gramineae	ramineae 🔲 YES 💆 🗝		
18. CHECK APPROPRIATE BOX FOR EACH	ATTACHMENT SUBMITTED (For	low instructions	on 19. DOES T	HE OWNER SPECIFY THAT SEED OF	THIS VARIETY BE SOLD AS A CLASS OF	
reverse) a. 173 Exhibit A. Origin and Breeding	History of the Variety		CERTE		Plant Variety Protection Act) NO (If "no," go to item 22)	
a. Exhibit A. Origin and Breeding b. Exhibit B. Statement of Distinct				and 21 below)		
c. 📆 Exhibit C. Objective Description	n of Variety	,	20, DOES T OF GEN	HE OWNER SPECIFY THAT SEED OF ERATIONS?	THIS VARIETY BE LIMITED AS TO NUMBER	
d. Eshbit Ö. Additional Descripti	- · · · · · · · · · · · · · · · · · · ·	-	i g	YES	□ но	
S S Marriage Compto /3 500 seption	sis of the Owner's Ownership untreated seeds or, for tuber propa	gated varieties				
repository)	wil be deposited and maintained in 2705 2,450), made psysble to "Tressurei		subfic 21. IF YES		RED IX CERTIFIED	
22. HAS THE VARIETY (INCL UDING ANY H FROM THIS VARIETY BEEN SOLD, DIS	ABLACTER MATERIAL \ OR A WY	BRID PRODUC	23. IS THE	VARIETY OR ANY COMPONENT OF THE RTY RIGHT (PLANT BREEDER'S RIGH	HE VARIETY PROTECTED BY INTELLECTUAL	
OTHER COUNTRIES?	_	0025 41 112	a.u.ck	M VEE DAN 914102 22 NO		
F YES, YOU MUST PROVIDE THE DA	I NO TE OF FIRST SALE, DISPOSITION	(, TRANSFER,	ORUSE FYES.	PLEASE GIVE COUNTRY, DATE OF FI	LING OR ISSUANCE AND ASSIGNED	
FOR EACH COUNTRY AND THE GIRC 24. The owners declare that a viable sample						
 for a fuber propagated variety a tissue or 	yran will be deposited in a public t	wpository and	meintained for the duration	of the certificate.		
and is entitled to protection under the pro	wisions of Section 42 of the Plant V	SHRY PIOUSCE	ON AC.	(s) that the variety is new, distinct, unifo	III, MEZ SCHOOL AS ENGINEED ES CHOOLES (AL.	
Owner(s) is(are) informed that false repre	executation herein can feoperdize pr	otection and re	· · · · · · · · · · · · · · · · · · ·	•		
SIGNATURE OF OWNER	Me Lenis		SIGNATURI	E OF OWNER		
NAME (Please print or type)	· a prigo		NAME (Pie	se print or type)		
•						
Kent S. McKenzie			ļ	1		
Kent S. McKenzie	DATE	,	/ CAPACITY	OR TITLE	DATE	

INSTRUCTIONS

200100057

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository: (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
 - (2) the details of subsequent stages of selection and multiplication:
 - (3) evidence of uniformity and stability; and
 - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively:
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

M=104 was jointly released by California Cooperative Rice Research Foundation, California Agriculture Experiment Station, and USDA-ARS March 21, 2000. Foundation seed was first distributed to California rice seed producers April 11, 2000 for planting in 2000.

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

M-104 was issued US Patent No. 6,495,746 issued 17 Dec. 2002

PAS 9/4/2004

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's epresentative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705, Telephone: (301) 504-8089.

Public reporting burden for this collection of information is assimilated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for aducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your other. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, see, mission, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Plantons with disabilities who require alternative means for communication of program information (brails, large print, audiotape, etc.) should contact the USDA Office of 2007 170-2791. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1327 (voice)

SET-470 (6-95) designed by the Plant Variety Protection Office with WordPerfect 6.0s. Replaces SYD-470 (03-95) which is obsolets:

'M-104' Rice

18a. Exhibit A. Origin and Breeding History of the Variety

1) Genealogy

M-104 is a very early, semidwarf, California glabrous, Calrose quality medium-grain experimental variety that has been evaluated in large plot yield tests since 1995 under experimental designation 95-Y-214. It is a very early selection from the 1990-1991 winter greenhouse cross R17135 and has the pedigree M-103//F1 (90-Y-275/M-103). thus the full pedigree M-103/6/M-102/4/M201/3/M7/M9//M7/5/M-103. All varieties used in the pedigree were developed by the California Cooperative Rice Research Foundation (CCRRF) at the Rice Experiment Station (RES), Biggs, CA. They all are considered Calrose medium-grains with semidwarf height. 90-Y-275 was a very early experimental line and has the pedigree M-102/4/M201/3/M7/M9//M7. It was derived from the cross of a previous line (M201/3/M7/M9//M7) tested in statewide yield tests. The male F₁ identified as R16618 was made in the 1990 summer greenhouse. Only M-103 is currently in commercial production in California. M-104 is the product of modified pedigree breeding. Very early spray painted panicle selections from the 1992 F₂ nursery were bulked 6 panicles per row in the 1992-1993 Hawaiian nursery. Panicle selections grouped from the R17135 Hawaii rows were planted in 1993 individual rows. 93 row 63633 was identified as the source of 1994 small plot 83 which produced seed for 95-Y-214 RES Preliminary Yield Trial. It has been tested in the University of California Cooperative Extension (UCCE) Statewide Yield Tests from 1996 to 1999.

2) Selection and multiplication

M-104 selection was made for earliness of M-103 and for higher seed weight similar to other Calrose medium grains. Panicle selections were first taken for headrow production in 1996 and continued through 1999. The 1996 panicles were initially purified in the 1997 headrow nursery. The 1997 headrows were bulked to plant the breeder seed increase and headrow panicles selected for 200 headrows in 1998. The 1998 breeder seed was used to plant the 1999 foundation seed and the bulk of 1998 headrows planted the 1999 breeder production area. The 1998 head row panicle selections were used to plant 400 headrows in 1999.

3) Uniformity and stability

Panicle selections were first taken for headrow production in 1996 and continued through 1998. During the headrow production any putative segregating or variant rows were removed from the field. Visual inspection (seedling vigor, heading date, plant height, grain shape and size, etc.) of headrows were used as criteria to confirm cultivar purity. This is standard procedure at RES to monitor and maintain breeder seed of the 13 currently grown California rice varieties. M-104 was approved for certification by the California Crop Improvement Association in 2000. Classes of seed will be breeder, foundation, registered, and certified seed produced in California. Foundation seed can be used to produce foundation seed if necessary and headrow and breeder seed will be produced in foundation fields as necessary to maintain cultivar purity. M-104 has been observed in seed increase

and production fields for three generations (1996 to 1998) and found to be uniform and stable.

4) Variants

The breeder, foundation, and headrows were rogued multiple times and off-types, putative out crosses, and other visual variants were removed from the field. These included smooth, slightly later, taller medium grains, glabrous longer medium grains from possible outcrossing, elongated upper internodes, pubescent medium-grains and pubescent short grains in a total frequency of 0.02%.

18b. Exhibit B. Statement of Distinctiveness

1) Variety Differences

M-104 is a semidwarf, very early maturing, medium-grain being released to serve the Calrose medium-grain market. "Calrose" was the founding California medium-grain rice variety, the ancestor of California medium-grains, and is now recognized as a market class term for California medium-grain rice. Comparisons for evaluation purposes were made to M-103 and M-202, which are similar quality types. M-104 has a heavier 1000 grain weight than M-103 and is earlier than M-202. M-104 is most similar to M-103 and can be distinguished by it's higher brown rice kernel weight.

2) Statistical data

Agronomic characteristics: Agronomic characteristics (seedling vigor through yield) were collected in multiple location University of California Cooperative Extension (UCCE) Statewide Yield Tests in 1996 to 1999 are summarized in Table 1. M-104 is significantly earlier than M-202. Tables 2 & 3 show individual year statistical evidence collected from replicated large plot yield tests at RES.

Grain characteristics: Various grain characters were collected at RES 1997 to 1999. M-104 1000 grain weight (g) is similar to M-202 and significantly larger than M-103 (Table 1).

Table 1. Summary of agronomic characteristics for M-103, M-104, and M-202, 1995-1999.

Character	M-103	M-104	M-202
Seedling vigor score†	4.3	4.4	4.5
Days 50% heading	80	80*	88
Plant height (cm)	92	91	98
Lodging (%)	49	37	43
Blanking – Greenhouse	22	21	24
Blanking - Davis	7	16	12
Blanking – San Joaquin	8	13	18
Overall blanking mean	12	17	18
Stem rot (score)	5.4	5.4	5.2
Harvest moisture (%)	18.8	18.2	21.4
Yield (lb/acre @ 14%)	8087	*8801	8790
Total milled rice (%)	68.1	67.8	67.2
Whole kernel milled rice (%)	63.4	63.1	61.0
Brown Rice 1000 grain wt (g)	22.1	*24.4	24.0
Brown Rice length (cm)	5.8	6.4	6.2
Brown Rice width (cm)	2.7	2.9	3.0
Ratio (L/W)	2.15	2.21	2.06

[†] Seedling vigor visual score where 1=poor and 5=excellent.

Table 2. 2000 to 2002, 1000 brown rice kernel weight (g) of M-103, M-104, and M-202 at the Rice Experiment Station, Biggs, CA.

Year	M-103 (g)	M-104 (g)	M-202 (g)	LSD (0.05)
2000	22.6	24.4*	23.9	1.0
2001	22.7	24.0*	23.7	1.1
2002	21.1	23.9*	23.1	1.0

^{*} Significantly different from M-103 at the 0.05 probability level.

Table 3. Days to 50% flowering for M-103, M-104, and M-202 from 1995 to 1999 at the Rice Experiment Station, Biggs, CA.

Year	Trial	M-103 (d)	M-104 (d)	M-202 (d)	LSD
1995	Very, very early preliminary	79	77*	84	2
1996	Very early county	76	75*	89	1
1997	Very early county	79	79*	94	1
1998	Very early county	76	76*	86	2
1998	Early county	77	76*	83	2
1999	Very early county	86	83*	97	3
1999	Early county	82*	79*	95	2

^{*} Significantly different from M-202 at the 0.05 probability level.

^{*} Significantly different from the respective check variety at the 0.05 probability level.

U.S. DEPARTMENT OF AGRICULTURE PLANT VARIETY PROTECTION OFFICE, AMS, USDA NATIONAL AGRICULTURAL LIBRARY Bldg., Rm. 500 10301 BALTIMORE Blvd. BELTSVILLE, MD 20705

OBJECTIVE VARIETY DESCRIPTION

RICE (Oryza	satīva)	
Name of Applicant(s)	Temporary Designation	Variety Name
California Cooperative Rice Research Foundation, I	nc. 95-Y-214	M-104
Address (Street and No. or R.F.D. No., City, State, and Zip Code)		FOR OFFICIAL USE ONLY
Rice Experiment Station		PVPO Number
955 Butte City Hwy P. O. Box 306		200100057
Biggs, CA 95917-0306		
Place the appropriate number that describes the character of this variety in corresponding to descriptors developed by IBGR-IRRI Rice Advisory Condemonstrate novelty more readily by describing as many characters as is po	nmittee and the US Rice Crop	These numbers are also code numbers Advisory Committee. Breeders will
1. MATURITY - Days to Heading (Seeding to 50% Heading):		
A. South: (Location:) at	kg/ha (Nitrogen rate)
Number of days		
Days earlier than Check variety:		
Days same as Check variety:	•	
Days later than Check variety:		
Maturity Class (50% heading) - South: I = Very earl 3 = Intermed	iy (less than 86 days) 2 = Ear iate (101 - 115) 4 = Lat	ly (86 - 100) e (more than 115)
B. California: (Location: Biggs, CA	at 135	kg/ha (Nitrogen rate)
79 Number of days	(fallowed land)
8 Days earlier than Check variety: M-202		
Days same as Check variety: M=103		
Days later than Check variety:		
1 Maturity Class (50% heading) - California: 1 = Very earl	ly (less than 91 days) 2 = Ear	ły (91 - 97)
	iate (98 - 104) 4 = Lat	e (more than 104 days)
2. CULM:		
1 ANGLE (Degrees from Perpendicular after Flowering:		
1 = Erect (less than 30°) 3 = Intermediate (about 45°) 7 = Spreading (more than 60° but the culms do not rest on 9 = Procumbent (the culm or its lower part rests on the gro	5 = Open (about 60°) the ground) ound surface)	

	LENGT	ГН	• 1								L U			J O /
		3 0 . 0	cm (Soil level to	o top of ex	tended p	anicle on	main st	em)						
	1	0	cm Shorter than	n Check v	ariety:_	M-103		-					-	
			Length same as	Check v	ariety:_									•
	-		cm Longer than	Check v	ariety:_	·								
	1	HEIGHT	r class:	1 = Sem	idwarf	2 = Sho	rt	3 = Medi	um	4 = Tall				
	1	INTERN	ODE COLOR (After flow	ering):	1 = Gre	en	2 = Light	Gold	3 = Ригр	le lines	4 = Pur	ple	
	3	STRENC	GTH (Lodging re	esistance):	5 = Inte		(most pi	lants lodged flat)		3 = Mod 7 = Weal				ants leaning
3. FLA	G LEAF ((After Hea	ading):											
٠	2 5	<u>. 6</u>	cm LENGTH		1 2	2_	mm W	DTH						
٠	1	PUBESC	CENCE: 1 = Gla	abrous	2 = Inte	rmediate		3 = Pubes	scent					
	1	LEAF A	NGLE (after hea	iding):	1 = Erec	ct	3 = Inte	ermediate	5 = Horiz	ontal	7 = Des	cending		
		BLADE	COLOR:	1 = Pale 5 = Purp		ins		en i ple blotch i	6 = Dark 7 = Purpl		4 = Purj	ole tips		
	1	BASAL	LEAF SHEATH	COLOR:	1 = Gre	en	2 = Pur	ple lines	3 = Light	рштріе	4 = Purj	ole		
4. LIG	ULE:													· · · · · · · · · · · · · · · · · · ·
		<u> </u>	mm LENGTH (1	from base	of collar	to the tip	, at late	vegetative :	stage)					
	1	COLOR	(Late vegetative	state):	1 = Whi	ite	2 = Pur	ple lines		3 = Purpl	e			
	1	SHAPE:	1 = Act	ite to acum	ninate	2 = 2-C1	eft	3 = Trunc	até					
	1	COLLAF	R COLOR (late v	egetative :	stage):	1 = Pale	green	2 = Green	ı	S = Purpl	.e			
	1	AURICL	E COLOR (late	vegetative	stage):	1 = Pale	green	2 = Purple	e					`
5. PAN	NCLE:													
	18	2	cm LENGTH				٠	1 · +						
	9	TYPE:	1 = Compact	5 = Intern	mediate		9 = Ope	en						
	2_	SECONE	DARY BRANCE	IING:	1 = Abs	ent	2 = Lig	ht 3	B = Heav	y ·	4 = Clus	stering		· .
	3	EXSERT	ION (near matur	rity):	1 = Less	than 90%	%	2 = 90 - 9	9% :	3 = 100%	é exserte	ed		
	2	AXIS:	1 = Straight	2 = Droo	ру									÷ .
	1	SHATTE	RING: 1 = Ver 7 = Mo	y low (less derately hi		•		v (1 - 5%) h (more tha		5 = Mode	erate (6	- 25%)		
		THRESH	•											

13. OTHER DESCRIPTORS: If there are other characters that describe this variety, please indicate below: 200105

REFERENCES

- 1. C. R. Adair et al. 1972. Rice in the United States: Varieties and Production. USDA Handbook No. 289 (Rev.), 124 pp.
- 2. J. G. Atkins et al. 1967. An International Set of Rice Varieties for Differentiating Race of Pyricularia Oryzae. Phytopath. 57:297-301.
- 3. IBPGR-IRRI Rice Advisory Committee. 1980. Descriptors for Rice Oryza sativa L.). International Rice Research Institute. 21 pp.
- 4. K. C. Ling and S. H. Ou, 1969. Standardization of the International Race Numbers of Pyricularia Oryzae. Phytopath. 59:339-342.
- 5. B. D. Webb et al. 1985. Utilization Characteristics and Qualities of United States Rice. In Proceedings on Rice Grain Quality and Marketing. International Rice Research Institute (IRRI), Los Banos, Philippines. p. 25-35.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995					
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).					
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME				
California Cooperative Rice Research Foundation, Inc.	95–Y–214	м–104				
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)				
Rice Experiment Station P. O. Box 306	530-868-5481	530-868-1730				
Biggs, CA 95917-0306	7. PVPO NUMBER 200	100057				
8. Does the applicant own all rights to the variety? Mark an "X" in appropri	riale block. If no. please explain.	XI YES TO NO				
		X YES NO				
	<u> </u>	•				
 Is the applicant (individual or company) a U.S. national or U.S. based of If no, give name of country 	ompany?	X YES NO				
10. Is the applicant the original owner?	O If no, please answer one of the f	ollowing:				
a. If original rights to variety were owned by individual(s), is (are) the or	riginal owner(s) a U.S. national(s)?					
☐ YES ☐ N	O If no, give name of country	,				
b. If original rights to variety were owned by a company(ies), is(are) the		· •				
· · · · · · · · · · · · · · · · · · ·	(O if no, give name of country					
11. Additional explanation on ownership (if needed, use reverse for extra s	oace):					
M-104 was developed by Dr. Carl W. Johnson w Cooperative Rice Research Foundation, Inc. (ho is a plant breeder em	ployed by the California				
	•					
PLEASE NOTE:						
Plant variety protection can be afforded only to owners (not licensees) who meet o	ne of the following criteria:					
 If the rights to the variety are owned by the original breeder, that person must be which affords similar protection to nationals of the U.S. for the same genus and 		per country, or national of a country				
If the rights to the variety are owned by the company which employed the originemmber country, or owned by nationals of a country which affords similar protein.	nal breeder(s), the company must be U.S. ba ection to nationals of the U.S. for the same	used, owned by nationals of a UPOV genus and species.				
3. If the applicant is an owner who is not the original owner, both the original own	ner and the applicant must meet one of the a	bove criteria.				
The original breeder/owner may be the individual or company who directed final b	arceding. See Section 41(a)(2) of the Plant V	Variety Protection Act for definition.				
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection collection is 0581-0055. The time required to compete this information collect searching existing data sources, gathering and maintaining the data needed, and completing and	tion is estimated to average 10 minutes per respon	pretrol number. The valid OMB control number for se, including the time for reviewing instructions,				
The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis on (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative USDA's TARGET Center at 202-720-2600 (voice and TDO).	of race, color, national origin, sex, religion, age, disabl t means for communication of program information (f	ity, political besiefs, and marital or familial status. xxalie, large print, audiotape, etc.) should contact				

To file a compleint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment apportunity employer.